State of Texas Assessments of Academic Readiness (STAAR®)
Performance Level Descriptors
Grade 8 Mathematics

Performance Level Descriptors
The mathematical process skills describe ways in which students are expected to engage in the content. They are not assessed in isolation but are incorporated into questions that assess grade 8 content. The process skills focus on applying mathematics to solve problems, analyze mathematical relationships, and communicate mathematical ideas.
Students achieving Level III: Advanced Academic Performance can • Describe relationships between sets of real numbers • Use multiple representations of proportional and non-proportional linear relationships • Model one-variable inequalities with variables on both sides of the inequality sign • Use algebraic representations to describe the effects of rotations, reflections, translations, and dilations
Students achieving Level II: Satisfactory Academic Performance can • Represent and use real numbers in a variety of forms • Determine the rate of change or slope from a table or graph • Use proportional and non-proportional relationships to develop foundational concepts of functions • Model and solve one-variable equations with variables on both sides of the equal sign • Use proportional relationships to describe dilations • Solve application problems involving surface area, volume, and the Pythagorean theorem • Solve problems involving rotations, reflections, translations, and dilations • Use data sets to describe relationships and make predictions • Solve problems involving interest and savings
Students achieving Level I: Unsatisfactory Academic Performance can • Approximate the value of irrational numbers • Identify proportional relationships • Use models and diagrams to explain the Pythagorean theorem • Identify transformations that preserve congruence

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